

**GENERAL PERMIT
AUTHORIZATION TO DISCHARGE STORM WATER
ASSOCIATED WITH MUNICIPAL SEPARATE STORM
SEWER SYSTEMS UNDER THE
NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM
PERMIT PROGRAM**

**PERMIT No: MN R 580000
PERMIT APPLICATION No: MN R 040000**

**MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD NORTH
ST. PAUL, MN 55155-4194**

March 10, 2003

**STORM WATER POLLUTION PREVENTION PROGRAM
FOR
THE CITY OF BLOOMINGTON, MINNESOTA**

PREPARED BY

**Scott M. Anderson, P.E., Civil Engineer
Steven W. Segar, P.E., Civil Engineer**

**City of Bloomington
Department of Public Works
Engineering Division
1700 West 98th Street
Bloomington, MN 55431
952-563-4870**

TABLE OF CONTENTS

i.	TITLE PAGE	
ii.	TABLE OF CONTENTS	
iii.	LIST OF TABLES, FIGURES, & APPENDICES	
I.	BACKGROUND.....	1
	CURRENT RULEMAKING.....	1
	MUNICIPAL SEPARATE STORM SEWER SYSTEM.....	1
	WHAT'S REQUIRED UNDER PHASE II.....	2
	REGULATORY FLEXIBILITY IN OBTAINING COVERAGE.....	3
II.	MS4 GENERAL PERMIT.....	9
III.	INTRODUCTION.....	33
	STORM WATER POLLUTION PREVENTION PROGRAM.....	33
	GOALS.....	33
	COVERAGE.....	34
	SECTION 303(d) TOTAL MAXIMUM DAILY LOAD (TMDL).....	36
	SPECIAL WATERS REFERENCE DOCUMENT.....	37
IV.	NOTICE OF INTENT.....	40
	RECORD RETENTION/PUBLIC AVAILABILITY.....	40
	ANNUAL REPORTING.....	40
	APPLICATION.....	42
V.	ENVIRONMENT.....	55
	GUIDEPLAN PROCESS.....	55
VI.	EDUCATION PROGRAM.....	62
	PUBLIC EDUCATION/OUTREACH.....	62
	PUBLIC PARTICIPATION/INVOLVEMENT.....	63
	ILLCIT DISCHARGE DETECTION/ELIMINATION.....	64
	CONSTRUCTION SITE STORM WATER MANAGEMENT.....	66
	POST CONSTRUCTION STORM WATER MANAGEMENT.....	67
	POLLUTION PREVENTION/GOOD HOUSEKEEPING.....	68
	COORDINATION.....	69
	PUBLIC NOTICE.....	69
VII.	MINIMUM CONTROL MEASURE SUMMARY.....	70
VIII.	BEST MANAGEMENT PRACTICES.....	78

LIST OF TABLES, FIGURES, & APPENDICES

TABLE I-1 – 2000 CENSUS MANDATORY MS4 LIST

TABLE VII-1 – PUBLIC EDUCATION/OUTREACH MCM SUMMARY

TABLE VII-2 – PUBLIC PARTICIPATION/INVOLVEMENT MCM SUMMARY

TABLE VII-3 – ILLICIT DISCHARGE DETECTION/ELIMINATION SUMMARY

TABLE VII-4 – CONSTRUCTION SITE RUNOFF PREVENTION SUMMARY

TABLE VII-5 – POST-CONSTRUCTION SITE RUNOFF PREVENTION SUMMARY

TABLE VII-6 – POLLUTION PREVENTION/GOOD HOUSEKEEPING SUMMARY

TABEL VIII-1 – BMP MASTER LIST

FIGURE I-1 – 2000 CENSUS URBAN AREA MAP

FIGURE III-1 – DEPARTMENT OF NATURAL RESOURCES SPECIAL WATERS MAP

FIGURE V-1 – CITY OF BLOOMINGTON ORGANIZATIONAL CHART

FIGURE V-2 – CITY OF BLOOMINGTON WATERBODIES

FIGURE V-3 – CITY OF BLOOMINGTON MUNICIPAL SEPARATE STORM SEWER SYSTEM

APPENDIX A – GLOSSARY

APPENDIX B – ACRONYMS

APPENDIX C – REFERENCES

SECTION I BACKGROUND

BACKGROUND

In 1972 the Federal Water Pollution Control Act (commonly referred to as the Clean Water Act) was amended by Congress to provide that the discharge of pollutants to waters of the United States from any point source is unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. The 1987 amendments to the CWA added section 402(p) which established a framework for regulating storm water discharges under the NPDES Program. Subsequently, in 1990, the United States Environmental Protection Agency (EPA) promulgated regulations for permitting storm water discharges from industrial sites (including construction sites that disturb five acres or more) and from municipal separate storm sewer systems (MS4s) serving a population of 100,000 people or more. These regulations, known as the Phase I regulations, require operators of medium and large Municipal Separate Storm Sewer Systems (MS4s) to obtain storm water permits. On December 8, 1999, the EPA promulgated regulations known as Phase II, requiring permits for storm water discharges from Small MS4s and from construction sites disturbing between 1 and 5 acres. This General Permit regulates storm water discharges from the City of Bloomington's MS4.

CURRENT RULEMAKING

The Army Corps of Engineers and Environmental Protection Agency are currently undertaking an advance notice of proposed rulemaking (ANPRM) in order to obtain comment on issues associated with the scope of waters that are subject to the Clean Water Act (CWA), in light of the Supreme Court decision in Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 531 U.S. 159 (2001) (SWANCC).

This ANPRM seeks input on the implications of the SWANCC decision for jurisdictional decisions under the CWA. The goal of the agencies is to develop proposed regulations that will further clarify what waters are subject to CWA jurisdiction and affording full protection to these waters. Responses to the ANPRM will be used to determine the issues to be addressed and substantive approach for a future proposed rulemaking addressing the scope of CWA jurisdiction.

This permit and Storm Water Pollution Prevention Program (SWPPP) for the City of Bloomington are designed to obtain coverage and maintain compliance as outlined in the General Permit issued by the Minnesota Pollution Control Agency. The permit and SWPPP are being submitted on a voluntary basis. Should future proposed rulemaking or alterations to the jurisdiction of the Clean Water Act or this permit become evident, the City of Bloomington reserves the right to alter or discontinue this permit and SWPPP as necessary.

MUNICIPAL SEPARATE STORM SEWER SYSTEM

A MS4 does not solely refer to municipally owned storm sewer systems, but rather is much broader and can refer to state departments of transportation, universities, local sewer districts, hospitals, military bases, prisons, or any other entity that owns a storm

SECTION I BACKGROUND

water conveyance system. A MS4 also is not limited to storm sewer pipes and inlets, but can include roads, gutters and ditches. The regulatory definition is described in 40 CFR 122.26(b)(16) and summarized below.

MS4 means a municipal separate storm sewer system, which is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curb and gutter, ditches, man-made channels, or storm drains):

1. Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management Agency under section 208 of the CWA that discharges to waters of the United States;
2. Designed or used for collecting or conveying storm water;
3. Which is not a combined sewer; and
4. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

A small MS4 is defined as a MS4 that is not a permitted MS4 under the Phase I regulations located in an urbanized area as defined by the Bureau of the Census (unless waived by the NPDES permitting authority), and on a case by case basis those MS4s located outside of an urbanized area that the permitting authority designates.

The Bureau of the Census determines urbanized areas by applying a detailed set of published criteria to the latest decennial census data. In general, an urbanized area is a land area comprising one or more places – central places – and the adjacent densely settled surrounding area – urban fringe – that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile.

WHAT'S REQUIRED UNDER PHASE II

The Phase II Rules can be divided into three main components, each with distinct requirements:

1. Regulated small MS4s;
2. Small construction activity; and
3. Industrial activity.

This Permit and Storm Water Pollution Prevention Program (SWPPP) will cover only the regulated small MS4 owned by the City of Bloomington. The Permit requires that the MS4 operator implement programs and practices to control storm water runoff from the jurisdiction serviced by the MS4. The operator must design its storm water management program to satisfy applicable CWA water quality requirements and technology standards. The program must include the development and implementation of best management practices (BMPs) and measurable goals for the following six minimum control measures:

1. Public education and outreach;
2. Public participation/involvement;

SECTION I BACKGROUND

3. Illicit discharge detection and elimination;
4. Construction site runoff control;
5. Post-construction runoff control; and
6. Pollution prevention/good housekeeping for municipal operations.

The implementation of all best management practices and measurable goals for each minimum control measure shall be executed to the Maximum Extent Practicable (MEP).

MEP is the technology based standard established by Congress in CWA section 402(p)(3)(B)(iii) that municipal dischargers of storm water must meet. Technology based standards establish the level of pollutant reductions that discharges must achieve. MEP is generally a result of emphasizing pollution prevention and source control BMPs as the first lines of defense in combination with treatment methods where appropriate serving as additional lines of defense. The MEP approach is ever evolving, flexible and advancing.

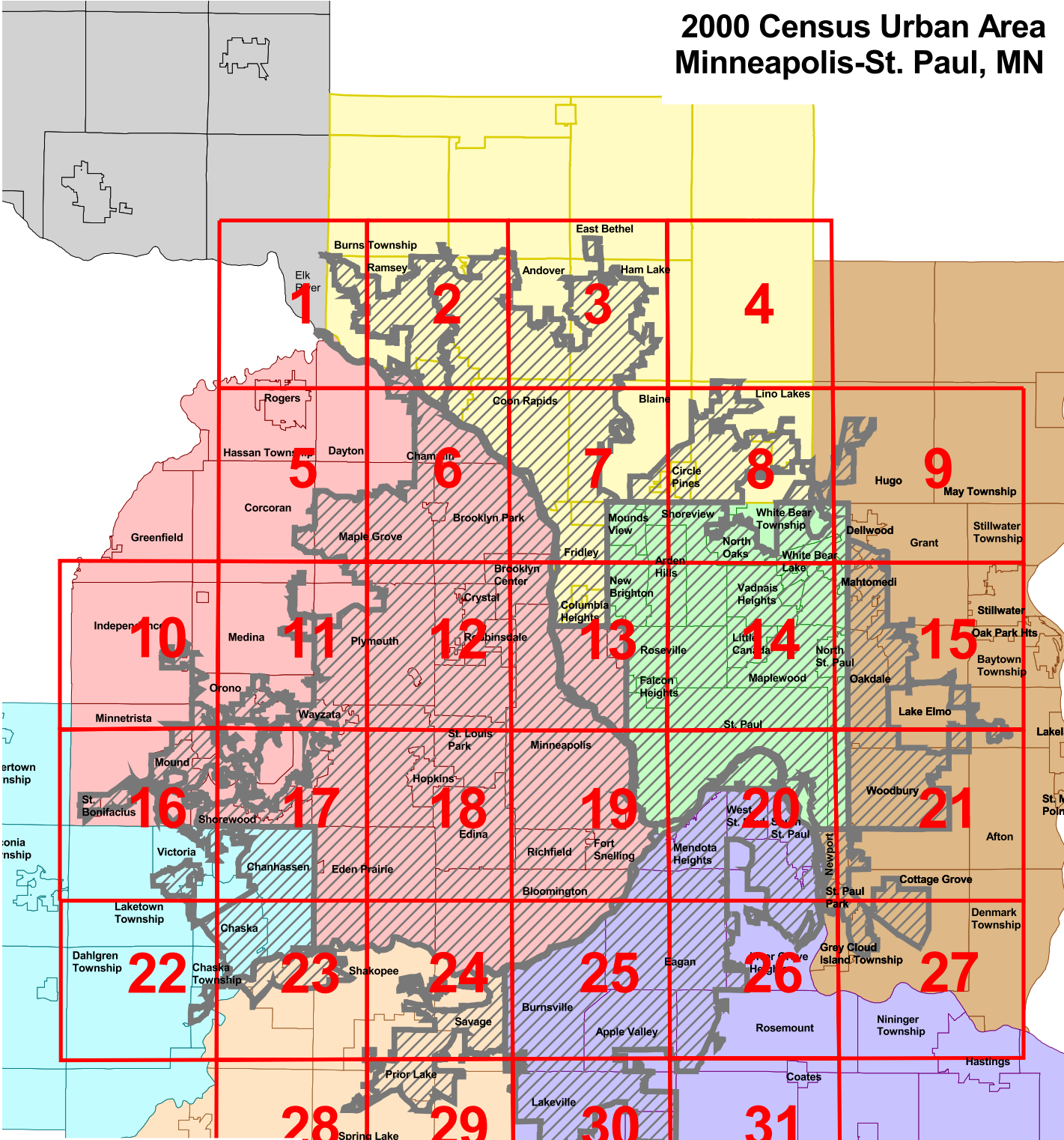
REGULATORY FLEXIBILITY IN OBTAINING COVERAGE

In promulgating the NPDES Phase II program, the EPA examined regulatory flexibility issues and intended to provide additional flexibility for small local governments. By doing this, the EPA include several programmatic options and potential waivers for small governments.

The Phase II rule allows for flexibility by providing various options for obtaining permit coverage and satisfying the required minimum control measures. The Minnesota Pollution Control Agency (MPCA), as the permitting authority, was allowed to create a general permit for small MS4's to obtain coverage. In addition, a regulated small MS4 can participate in the storm water management program of adjoining MS4's or other agencies or organizations to implement best management practices for each of the minimum control measures.

This permit and SWPPP specifically utilizes BMPs, activities, programs, and procedures managed by entities other than the City of Bloomington in addition to BMPs and activities managed by the City, to meet the permit requirements for each minimum control measure. These BMPs and responsible parties are listed in the minimum control measure summary tables and individually on each BMP page.

2000 Census Urban Area Minneapolis-St. Paul, MN



2000 Census Urban Areas

Anoka County

Carver County

Dakota County

Hennepin County

Ramsey County

Scott County

Sherburne County

Washington County

Data Sources
 2000 Urban Areas: US Census Bureau
 County Boundary: 2000 Census Bureau

Minnesota Pollution Control Agency
 July, 2002

**2000 Census Mandatory MS4
City/Township and County Lists**

City/Township Name	County	2000 Population	Within 2000 Census Urbanized Area
Andover	Anoka	26,588	Partially
Anoka	Anoka	18,076	Wholly
Apple Valley	Dakota	45,527	Partially
Arden Hills	Ramsey	9,652	Wholly
Birchwood Village	Washington	968	Wholly
Blaine (Multi-County)	Anoka	44,942	Partially
Blaine (Multi-County)	Ramsey	0	Wholly
Bloomington	Hennepin	85,172	Wholly
Brockway Township	Stearns	2,551	Partially
Brooklyn Center	Hennepin	29,172	Wholly
Brooklyn Park	Hennepin	67,388	Wholly
Burns Township	Anoka	3,557	Partially
Burnsville	Dakota	60,220	Partially
Carver	Carver	1,266	Partially
Cascade Township	Olmsted	3,183	Partially
Centerville	Anoka	3,202	Partially
Champlin	Hennepin	22,193	Wholly
Chanhassen	Carver	20,321	Partially
Chaska	Carver	17,449	Partially
Chaska Township	Carver	154	Partially
Circle Pines	Anoka	4,663	Wholly
Columbia Heights	Anoka	18,520	Wholly
Coon Rapids	Anoka	61,607	Wholly
Corcoran	Hennepin	5,630	Partially
Cottage Grove	Washington	30,582	Partially
Credit River Township	Scott	3,895	Partially
Crystal	Hennepin	22,698	Wholly
Dayton (Multi-County)	Hennepin	4,686	Partially
Dayton (Multi-County)	Wright	13	Partially
Deephaven	Hennepin	3,853	Wholly
Dellwood	Washington	1,033	Partially
Dilworth	Clay	3,001	Partially
Dresbach Township	Winona	413	Partially
Duluth	St. Louis	86,918	Partially
Duluth Township	St. Louis	1,723	Partially
Eagan	Dakota	63,557	Wholly
East Bethel	Anoka	10,941	Partially
East Grand Forks	Polk	7,501	Partially
Eden Prairie	Hennepin	54,901	Wholly
Edina	Hennepin	47,425	Wholly
Elk River	Sherburne	16,447	Partially
Empire Township	Dakota	1,638	Partially
Excelsior	Hennepin	2,393	Wholly
Falcon Heights	Ramsey	5,572	Wholly
Farmington	Dakota	12,365	Partially
Fort Snelling Unorganized	Hennepin	442	Wholly
Fridley	Anoka	27,449	Wholly
Gem Lake	Ramsey	419	Wholly
Golden Valley	Hennepin	20,281	Wholly
Grant	Washington	4,026	Partially

**2000 Census Mandatory MS4
City/Township and County Lists**

City/Township Name	County	2000 Population	Within 2000 Census Urbanized Area
Greenwood	Hennepin	729	Wholly
Ham Lake	Anoka	12,710	Partially
Haven Township	Sherburne	2,024	Partially
Haverhill Township	Olmsted	1,601	Partially
Hermantown Township	St. Louis	7,448	Partially
Hilltop	Anoka	766	Wholly
Hopkins	Hennepin	17,145	Wholly
Hugo	Washington	6,363	Partially
Independence	Hennepin	3,236	Partially
Inver Grove Heights	Dakota	29,751	Partially
Jackson Township	Scott	1,361	Partially
La Crescent	Houston	4,923	Partially
La Crescent Township	Houston	1,487	Partially
Lake Elmo	Washington	6,863	Partially
Laketown Township	Carver	2,331	Partially
Lakeville	Dakota	43,128	Partially
Landfall	Washington	700	Wholly
Lauderdale	Ramsey	2,364	Wholly
Le Sauk Township	Stearns	1,880	Partially
Lexington	Anoka	2,214	Wholly
Lilydale	Dakota	552	Wholly
Lino Lakes	Anoka	16,791	Partially
Little Canada	Ramsey	9,771	Wholly
Long Lake	Hennepin	1,842	Partially
Loretto	Hennepin	570	1990 Census UA
Louisville Township	Scott	1,359	Partially
Mahtomedi	Washington	7,563	Wholly
Maple Grove	Hennepin	50,365	Partially
Maple Plain	Hennepin	2,088	Partially
Maplewood	Ramsey	34,947	Wholly
Marion Township	Olmsted	6,159	Partially
Medicine Lake	Hennepin	368	Partially
Medina	Hennepin	4,005	Partially
Mendota	Dakota	197	Wholly
Mendota Heights	Dakota	11,434	Wholly
Midway Township	St. Louis	1,479	Partially
Minden Township	Benton	1,790	Partially
Minneapolis (Phase I)	Hennepin	382,618	Wholly
Minnetonka	Hennepin	51,301	Wholly
Minnetonka Beach	Hennepin	614	Wholly
Minnetrissa	Hennepin	4,358	Partially
Moorhead	Clay	32,177	Partially
Moorhead Township	Clay	442	Partially
Mound	Hennepin	9,435	Partially
Mounds View	Ramsey	12,738	Wholly
New Brighton	Ramsey	22,206	Wholly
New Hope	Hennepin	20,873	Wholly
Newport	Washington	3,715	Wholly
North Oaks	Ramsey	3,883	Partially
North St. Paul	Ramsey	11,929	Wholly

**2000 Census Mandatory MS4
City/Township and County Lists**

City/Township Name	County	2000 Population	Within 2000 Census Urbanized Area
Oak Grove	Anoka	6,903	Partially
Oakdale	Washington	26,653	Wholly
Oakport Township	Clay	1,689	Partially
Orono	Hennepin	7,538	Partially
Osseo	Hennepin	2,434	Wholly
Pine Springs	Washington	421	Wholly
Plymouth	Hennepin	65,894	Partially
Prior Lake	Scott	15,917	Partially
Proctor	St. Louis	2,852	Partially
Ramsey	Anoka	18,510	Partially
Rice Lake Township	St. Louis	4,139	Partially
Richfield	Hennepin	34,439	Wholly
Robbinsdale	Hennepin	14,123	Wholly
Rochester	Olmsted	85,806	Partially
Rochester Township	Olmsted	2,916	Partially
Rosemount	Dakota	14,619	Partially
Roseville	Ramsey	33,690	Wholly
St.Anthony (Multi-County)	Hennepin	5,664	Wholly
St.Anthony (Multi-County)	Ramsey	2,348	Wholly
St.Bonifacius	Hennepin	1,873	Partially
St.Cloud (Multi-County)	Benton	6,391	Wholly
St.Cloud (Multi-County)	Sherburne	5,982	Partially
St.Cloud (Multi-County)	Stearns	46,734	Partially
St.Cloud Township	Stearns	7,549	1990 Census UA
St.Joseph	Stearns	4,681	Partially
St.Joseph Township	Stearns	2,449	Partially
St.Louis Park	Hennepin	44,126	Wholly
St.Paul (Phase I)	Ramsey	287,151	Wholly
St.Paul Park	Washington	5,070	Wholly
Sartell (Multi-County)	Benton	2,011	Wholly
Sartell (Multi-County)	Stearns	7,630	Partially
Sauk Rapids	Benton	10,213	Partially
Sauk Rapids Township	Benton	723	Partially
Savage	Scott	21,115	Partially
Shakopee	Scott	20,568	Partially
Shoreview	Ramsey	25,924	Partially
Shorewood	Hennepin	7,400	Partially
South St.Paul	Dakota	20,167	Wholly
Spring Lake Park (Multi-County)	Anoka	6,667	Wholly
Spring Lake Park (Multi-County)	Ramsey	105	Wholly
Spring Lake Township	Scott	3,681	Partially
Spring Park	Hennepin	1,717	Partially
Sunfish Lake	Dakota	504	1990 Census UA
Tonka Bay	Hennepin	1,547	Wholly
Vadnais Heights	Ramsey	13,069	Wholly
Victoria	Carver	4,025	Partially
Waite Park	Stearns	6,568	Partially
Watab Township	Benton	2,920	Partially
Wayzata	Hennepin	4,113	Wholly
West Lakeland Township	Washington	3,547	Partially

**2000 Census Mandatory MS4
City/Township and County Lists**

City/Township Name	County	2000 Population	Within 2000 Census Urbanized Area
West St. Paul	Dakota	19,405	Wholly
White Bear Lake (Multi-County)	Ramsey	23,974	Wholly
White Bear Lake (Multi-County)	Washington	351	Wholly
White Bear Township	Ramsey	11,293	Partially
Willernie	Washington	549	Wholly
Woodbury	Washington	46,463	Partially
Woodland	Hennepin	480	Wholly

**2000 Census Mandatory MS4
City/Township and County Lists**

County Name	Urbanized Area(s)
Anoka	Twin Cities
Benton	St.Cloud
Carver	Twin Cities
Clay	Fargo/Moorhead
Dakota	Twin Cities
Hennepin	Twin Cities
Houston	LaCrosse/LaCrescent
Olmsted	Rochester
Polk	Grand Forks/ East Grand Forks
Scott	Twin Cities
Sherburne	St.Cloud/Twin Cities
St.Louis	Duluth
Stearns	St.Cloud
Washington	Twin Cities
Wright	St.Cloud/Twin Cities
Total = 15 Counties	

|